

ABSTRACT OF THE DISCLOSURE

Feedthrough apparatus has a metal housing with an opening therein and a base having a surface at the opening. A ceramic feedthrough extends through the opening in the housing and forms an interface therewith, and is brazed to the housing at the interface. The surface of the base extends at least to the feedthrough and has a cut-out area or opening therein adjacent the feedthrough in order to minimize the surface area contact at the interface between the ceramic feedthrough and the metal housing. The opening in the base may have edges which extend from sidewalls of the feedthrough under the feedthrough by small distances, in order to form a small ledge beneath the outer periphery of the feedthrough. Alternatively, the opening in the base may be approximately equal in size to the feedthrough so as to have edges which engage sidewalls of the feedthrough. The design of the feedthrough apparatus with its minimum of surface interface between the ceramic feedthrough and the metal housing provides for relaxed tolerances therebetween and permits brazing of the feedthrough at the opening within the housing using a high temperature brazing compound.